	Application No.	Applicant(s)
Notice of Allowability	10/824,132	SU ET AL.
	Examiner	Art Unit
	Victor V. Yevsikov	2891
The MAILING DATE of this communication apperatus All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is selected and MPEP 1308.	this application. If not included inication will be mailed in due course. THIS
1. This communication is responsive to <u>paper, filed 09/09/200</u>	00 .	
2. The allowed claim(s) is/are <u>1-20</u> .	•	
3. The drawings filed on <u>09 September 2005</u> are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Applicatio cuments have been received of this communication to file MENT of this application. eitted. Note the attached EXA es reason(s) why the oath or st be submitted. son's Patent Drawing Review	n No If in this national stage application from the a reply complying with the requirements MINER'S AMENDMENT or NOTICE OF declaration is deficient.
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE	ERIAL must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 9/9/5, 7²/४٠/5 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./l 98), 7. ☐ Examiner's	formal Patent Application (PTO-152) Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance

DETAILED ACTION

Allowable Subject Matter

Claims 1-20 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art does not teach a method for forming an interconnect structure comprising:

via etching the second dielectric layer and the first dielectric layer to form a via opening extending through the second dielectric layer and the first dielectric layer;

filling the via opening with a plug material, and

trench etching the second dielectric layer and the plug material to form a trench over a lower portion of the via opening and to remove the plug material from the via opening, thereby forming a dual damascene opening.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor Yevsikov whose telephone number is (571) 272-1910. The examiner can normally be reached on Monday –Thursdays 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, examiner's supervisor, William B. Baumeister, can be reached on (571) 272-1722. The fax phone

Application/Control Number: 10/824,132

Art Unit: 2891

numbers for the organization where this application or processing is assigned is (703) 873-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either Private PAIR or Public PAIR. Status information for unpublished application is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

V. Yus! Kar

September 22, 2005

Victor Yevsikov Examiner

Art Unit 2891

DAVID ZARINEKE RIMARY EXAMINER